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## Patent Abstracts of Japan

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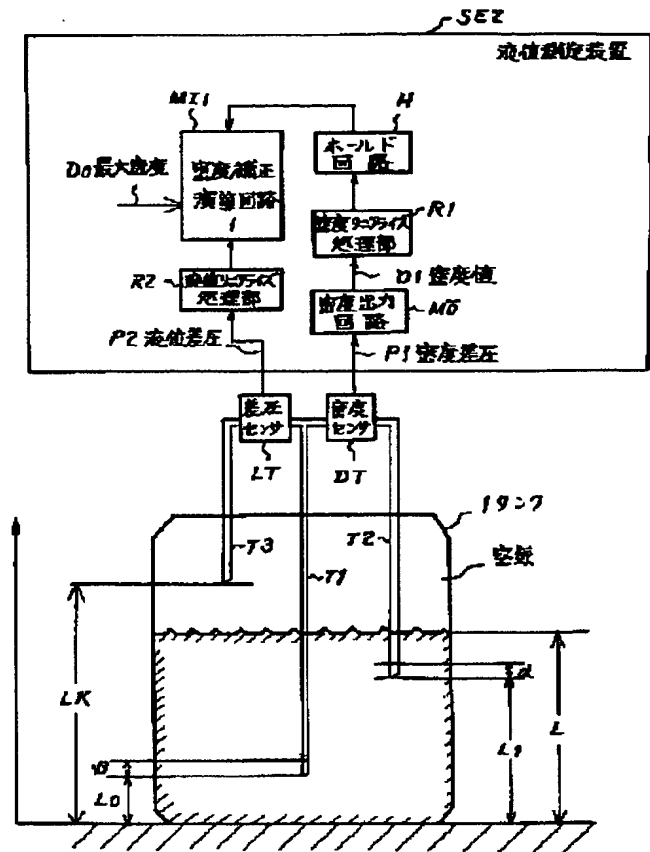
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TITLE : LIQUID LEVEL MEASURING DEVICE



ABSTRACT : PURPOSE: To provide a device for accurately measuring liquid level whose liquid density is changing.

CONSTITUTION: Level differential pressure P2 of the first and the third tubes T1, T3 is input in a density compensation computation circuit MI1 via a level linearization processing part R2. Density value D1 found from the density differential pressure P1 of the first and the second tubes T1, T2 is input in a hold circuit H via the density output circuit MO and the density linearization processing part R1. In the hold circuit H, when the level is lowered under the conditions of  $(L0+\beta) \leq \text{level } L$  and  $\text{level } L \leq (L1+\alpha)$ , the density value D1 is held and output. And in the density compensation computation circuit MI1, the level differential pressure P2 is subtracted by  $(L0+\beta)$  and divided by the maximum density value D0 of the liquid so that the level L2 of the maximum density is found. And L2 is divided by the value  $D1/D0$  of the density ratio circuit A and added by  $(L0+\beta)$  so that the level L to be found is provided.

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